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## Patent Abstracts of Japan

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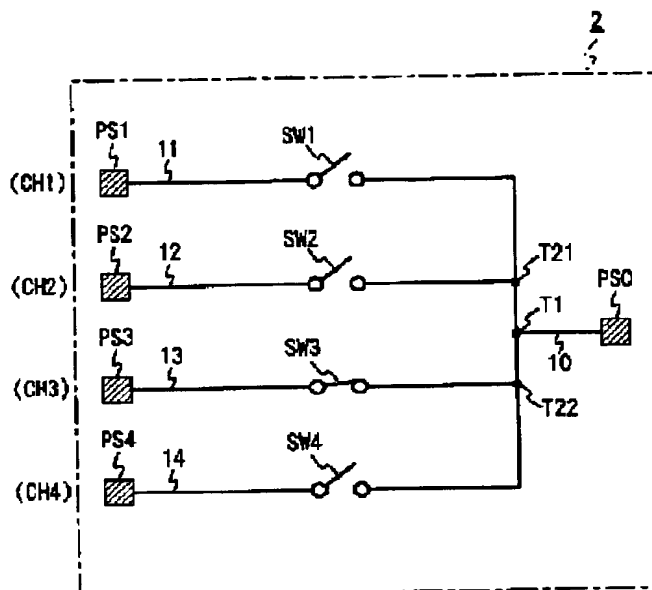
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TITLE : HIGH-FREQUENCY SIGNAL  
SWITCHING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a high-frequency signal switching device which has uniform insertion loss whichever a channel is made conductive.

SOLUTION: This high-frequency signal switching device is provided with a stub which has one end connected to individual transmission lines 11 to 14 branching off from a common transmission line 10 and switches SW1 to SW4 formed of stub resonance type switches composed of transistors opening or grounding the other end of the stub on the individual transmission lines 11 to 14. The individual transmission lines 11 to 14 are wired axisymmetrically about the common transmission line 10, the gates of the respective transistors are formed in a comb-tooth shape, and the switches SW1 and SW4 of outside channels CH1 and CH4 and the switches SW4 and SW3 of inside channels CH2 and CH3 are made different in the number of comb teeth of the gates of the transistors (i.e., total gate width) to vary the ON resistance of the transistors and then transmission characteristics at switch-ON time, thereby to compensate the transmission loss difference between both the channels.

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